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Polyethylene powder coating compsns. - contg. transition metal phosphate salt, org peroxide and sodium aluminosilicates

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JP 49036747 A 19740405 197452 B

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Priority Applications (No Type Date): JP 7279753 A 19720809

Abstract (Basic): JP 49036747 A

Powder coating material contains polyethylene (I), transition metal phosphate salt, org. peroxide, and Na Al silicate. The compsn. gives a coating with good adhesion to the substrate. In an example, a compsn. passing 60 mesh contg. 30 kg high density (I), 6 kg TiO₂, 1.5 kg Zn₃(PO₄)₂, and 0.6 kg 2Na₂O.2Al₂O₃.5SiO₂ (contg. 10% di-tert-butyl peroxide) was applied to a mild steel plate and heated 15-20 min. at 170-180 degrees C to give a coating with adhesion to the substrate (JIS K 6301-62) of 8.5 kg/25 mm; film tensile strength 204 kg/cm², Shore hardness D68, and heat-distortion temp. 70 degrees C; c.f. 1.2, 87, D58, and 56, resp., for a similar coating of 30:6

Title Terms: POLYETHYLENE; POWDER; COATING; COMPOSITION; CONTAIN; TRANSITION; METAL; PHOSPHATE; SALT; PEROXIDE; SODIUM

Derwent Class: A17; A82; G02

File Segment: CPI

Manual Codes (CPI/A-N): A04-G02B; A08-M01; A12-B01; G02-A02D

Polymer Fragment Codes (PF):

001 012 03& 04- 041 046 047 049 075 228 229 231 266 267 303 308 310 341
359 393 431 44& 47& 473 477 479 551 560 561 567 573 597 600 604 608
656 688 721

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